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molecules with a size which is up to (5-10) x 1000 times a size of quaternary hemoglobin molecules, comprising the steps of:

Performing fractional precipitation of the solution in presence of $(\text{NH}_4)_2$ as a precipitation reagent for at least 30 minutes,

Fractionating chromatographically in the solution;

Performing a partial fractionation dissolution of the solution, or

Performing at least one of the steps above or any combination of the steps

above; and

Separating the hyperpolymeric hemoglobin into different fractions based on its molecular weight.

Claim 9, line 1, after "claim" delete -5—and insert -6—.

11. (Amended) A method for the preparation of hyperpolymeric hemoglobins with uniform molar masses from solutions containing cross-linked hyperpolymeric hemoglobin molecules with sizes which are up to (5-10) x 100 times of the size of (quaternary structured) native hemoglobin molecules, comprising the steps of:

- performing a fractional precipitation of the solution by adding a precipitation reagent;
- performing a preparative chromatographical fractionation by using gel-permeation chromatography;